precision designed & engineered high fidelity record playing equipment and accessories

MICRO SOLID-1

OPERATING MANUAL

CAUTION

Parts container is packed in the dust cover. Remove the dustcover along with the parts container in the arrow direction, then take out the parts container.

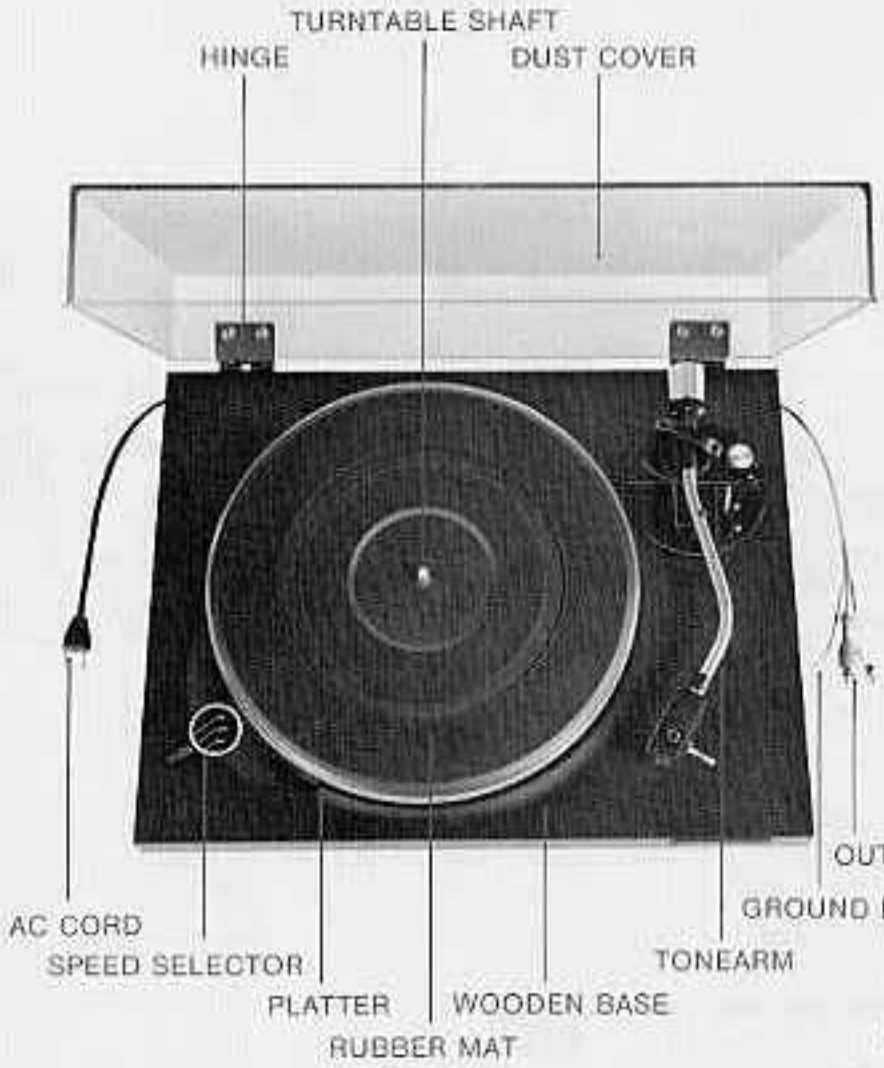


Photo-1

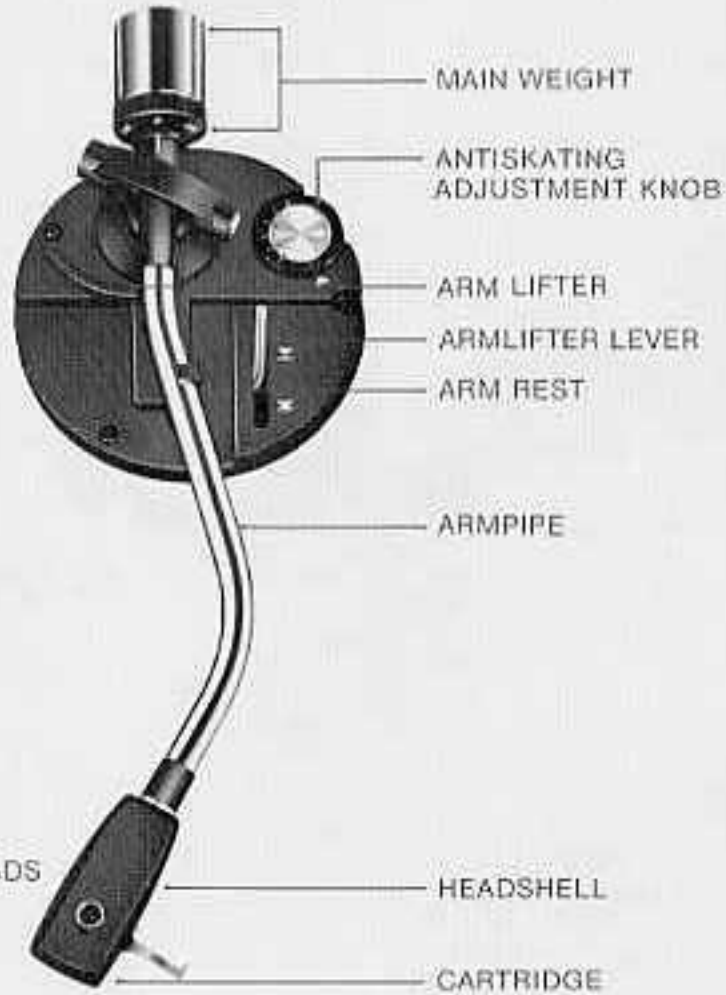


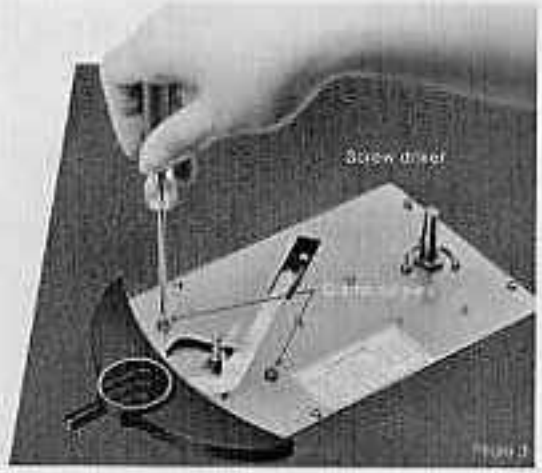
Photo-2

TURNTABLE & TONEARM ASSEMBLY

SOLID-1 is a highly precise and accurate instrument. To protect its many delicate parts from jarring and shock during shipment, those which for the utmost accuracy are required, or those which are heavy, have been separately package for shipment. It is necessary to assemble these parts according to the assembling chart before the turntable is ready for use.

• Remove Clamp Screws

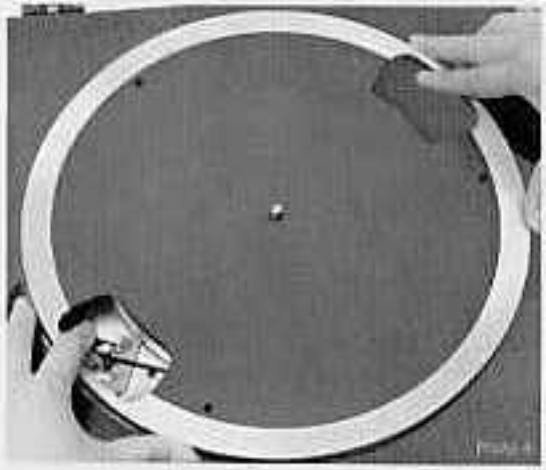
For safety reason, SOLID-1 is shipped with the turntable mounting board, motor and base fastended together by clamp screws. Before operation, be sure to remove two red-painted screws. (Photo 3)



• Turntable Platter and Drive Belt

Set the speed selector lever at OFF position, then loop the belt between the capstan and the drive rim of turntable platter, making sure that belt passes through the center of the belt guide. The narrowest part of the capstan is for 33-1/3 r.p.m. speed and wider part is for 45 r.p.m.. Be sure to avoid any oil or dust from adhering to the belt while handling (your hands should be clean). (Photo 4)

Belt is put on the inner ring part of turntable.



• Assembling Tonearm

Unpack main weight and install it on rear portion of tonearm so that the tracking force dial ring faces toward. (Photo 5) Rotate the main weight 2 or 3 turns to insure it is properly engaged with the tonearm.

TONEARM ADJUSTMENTS

• Horizontal Balancing

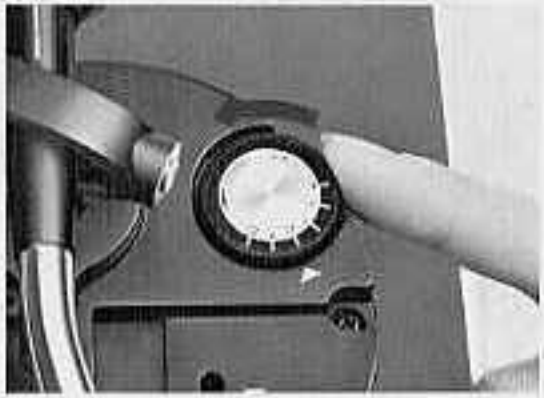
Lower arm lifter, remove tonearm from armrest and rotate main weight to move it forward or rearward and obtain balance.

• Tracking Force Adjustment

After balance the tonearm, return it to the arm rest and raise the arm lifter. Turn only the tracking force dial ring (see Photo 7) and set the reference line to zero (see Photo 8). Next, turn the rear part of the main weight in the arrow indicated direction so that the tracking force reference line is aligned with the 2.0 scale indication.(see Photo 9) This will provide the 2 grams tracking force recommended for the SOLID-1 accessory cartridge. The tracking force dial scale is direct reading in 0.5 gram increments.

• Anti-skating Device Adjustment

Turn control dial for Anti-skating device until you obtain the proper inside force cancel pressure. (Photos 10 & 11). Anti-skating devices are designed to obtain the exact cancel pressure in any case when scale indicates the same figure of tracking force. (Proper Adjustment 2.0 for 2.0 grams tracking force.)

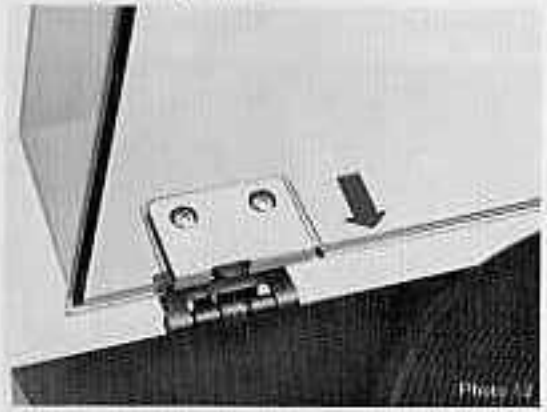


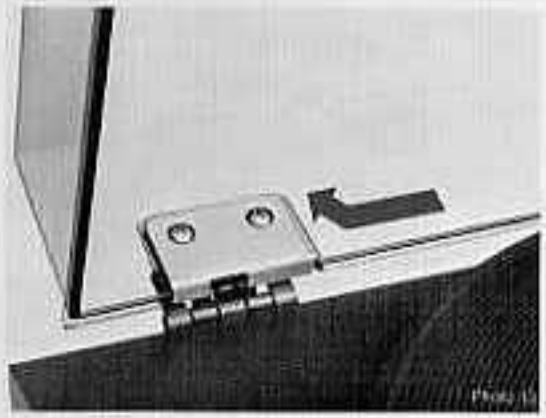
DUST COVER INSTALLATION

CONNECTIONS & OPERATION

• **Installing Dust Cover**

1. As shown in Photo 12, slide left and right dust cover brackets over the raised portion of the turntable hinges.
2. Slide the dust cover in the arrow indicated direction (Photo 13) and confirm that hinges are properly engaged.





• **Connecting to a Stereophonic Amplifier or receiver**

Connect the output plugs of the SOLID-1 to the input terminals of the amplifier marked PHONO (or MAG.).

1. Connect White pin-plug of the pink up cord to the left jack of the PHONO terminal of the amplifier.
2. Connect Red pin-plug of the pink up cord to the right jack of the PHONO terminal of the amplifier.

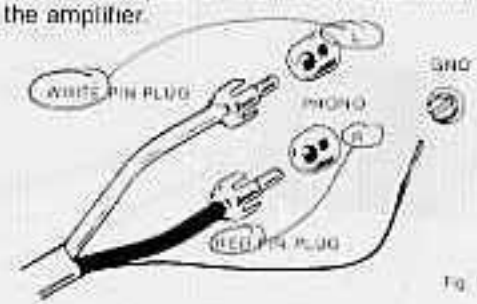


Fig. 1

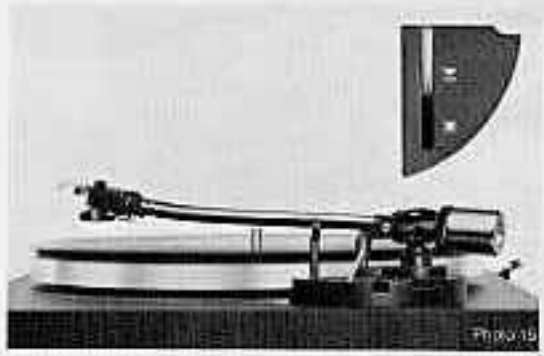
• **Power switch & Speed selector**

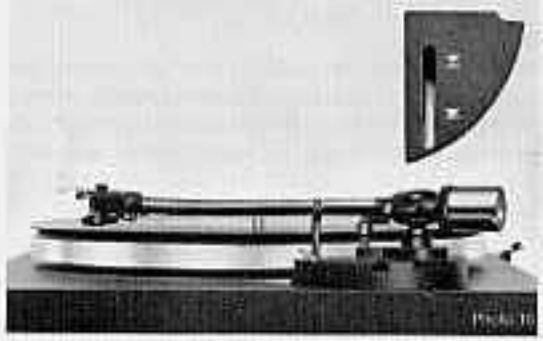
Power switch automatically connects with the speed selector switch. At 33 & 45 position the turntable commence to start. (Photo 14)

• **Arm Lifter**

The arm lifter raises and lowers the tonearm to safeguard records and stylus.

a. Move the tonearm to keep the stylus right above the starting groove of the records. (Photo 15)
b. Down the Arm Lifter lever. (Photo 16)
c. When the stylus of the cartridge runs over the final musical groove of a record, up the Arm Lifter lever then, tonearm goes up.
d. Return the tonearm to the arm rest.





PARTS REPLACEMENT & ADJUSTMENT

• Cartridge Stylus Replacement

The diamond stylus employed in the SOLID-1 accessory cartridge has a life of from 150 to 300 hours. In order to safeguard records and always enjoy optimum sound quality, the stylus should be replaced within this interval.

To replace the stylus, (see Photo 17) gently pull out the plastic housing together with the stylus and replace. Replacement stylus is type V-3300/7.

Photo 17

Cartridge replacement is made by removing the cartridge carrier from the shell. Turning the carrier setscrew and remove the carrier together with the cartridge. Carrier lead connection with the cartridge & carrier mounting onto the shell are as per pictures. (See Photo 18 & 19)

When replacing the cartridge, employ tweezers to disconnect and reconnect the lead wires. Be careful to perform the connections properly, as incorrect connections may cause absence of sound or hum. Lead wire color coding is as follows.

White : Left (L) +
Blue : Left (L) –
Red : Right (R) +
Green: Right (R) –

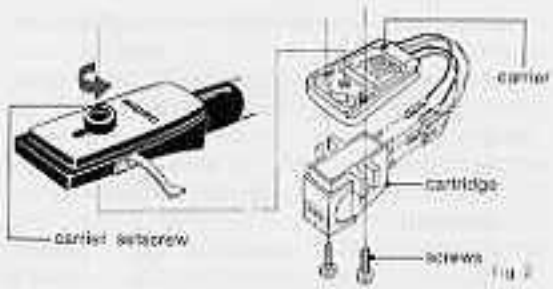


Fig. 2

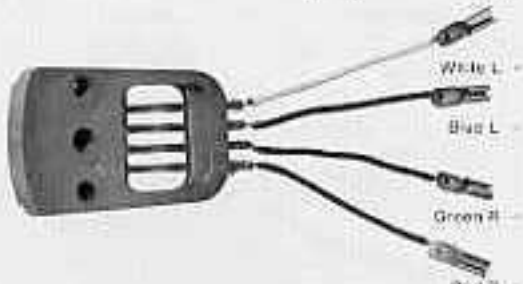


Photo 18

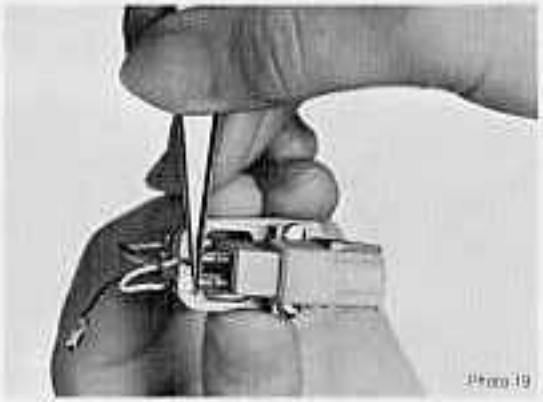


Photo 19

• Overhang Adjustment

Overhang refers to the distance by which the stylus exceeds the center of the record disc. The SOLID-1 tonearm is designed so that tracking error is minimized when the overhang equals 15mm. The accessory cartridge has been adjusted for this distance, but if another cartridge is employed, align the stylus to obtain proper overhang. (See Photo 20 & 21)

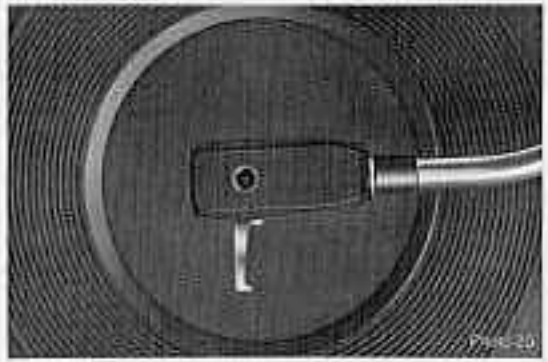


Photo 20

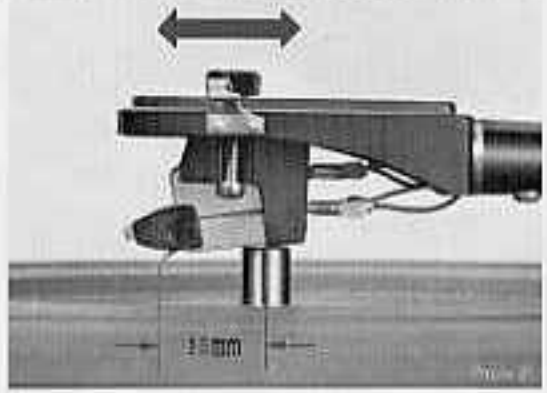


Photo 21

SPECIFICATIONS

TURNTABLE

Drive System	Belt drive
Motor	4-pole synchronous
Speeds	33-1/3 & 45 rpm
Platter	30 cm diecast aluminium
Power Consumption	110 (100 ~ 120)V or 220 (200 ~ 240) V AC 6W
Wow & Flutter	Less than 0.06%
SN Ratio	More than 48 dB

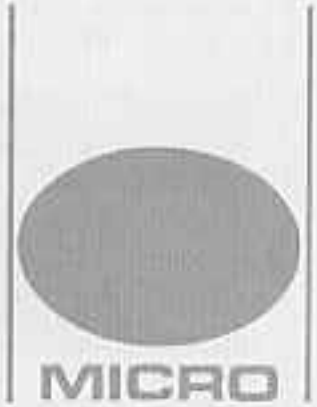
TONEARM:

Type	Static balance (w/anti-skating device responding to tracking force)
Effective Length	222 mm
Overhang	15 mm
Offset	23°
Maximum Tracking Error	Less than 1.5°
Suitable Cartridge Weight	4.5 – 10 grams
Tracking Force	
Adjusting Range	0 – 3 grams (1 turn)

CARTRIDGE (VF-3300/7):

Frequency Response	10 – 28,000 Hz
Output Balance	Less than 1 dB
Channel Separation	25 dB (1 kHz)
Output Voltage	4 mV (1 kHz 5 cm/sec)
Load Resistance	50 – 100 k
Optimum Tracking Force	2 grams
Stylus	0.7 mil diamond
Compliance	20×10^{-6} cm/dyne
Interchangeable Stylus	V-3300/7
Dimensions	126 (H) × 449 (W) × 342 (D) mm
Weight	5 kg

Specifications shown are subject to change without notice.



WORLD OF MICRO is created by the talented team of engineers, skilled sound technicians and expert designers. The complete line represents a combination of many years of our research to send you qualified high fidelity components: Turntable Decks, Stereo Cartridges, Tone Arms, and Complete Players. The MICRO trademark, which symbolizes an elliptic stylus tracing the grooves, is tantamount to the slogan of the company, an integrated manufacturer specializing in the production of turntables that challenge the ultimate in faithful reproduction of the original sound. Each unit is assembled with craftsmanship skill and pride. Each completed unit is quality-tested at the factory and delivered to you to assure dependable and trouble free performance.

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